



Do swimmers have longer bodies than runners?

How to Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) to download a sample.X

Reference year: (select year) **Sample size:** 200 students

Select questions: Height, Belly-button height, favourite sport

Location: Select location **Year level:** (select a range of year levels)

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% entered.

Task:

A researcher believes that swimmers have lower belly-button heights than runners. His theory is that a lower belly-button means a longer torso and a longer torso is an advantage for a swimmer compared to a runner.

CensusAtSchool collects data on height, belly-button height and favourite sport. If we assume that students who choose swimming as their favourite sport are good swimmers we can investigate the claim.

In this investigation you are going to compare the height and belly-button height of students who select swimming as their favourite sport with the height and belly-button height of the sample as a whole.

4. Highl

3. Select
Find the r

4. Divid

The screenshot shows the Microsoft Excel ribbon with the 'Conditional Formatting' menu open. The 'Highlight Cells Rules' option is selected, and a submenu is displayed. The 'Text that Contains...' rule is highlighted in yellow. The ribbon also shows 'Format as Table', 'Cell Styles', 'Insert', 'Delete', 'Format', 'AutoSum', 'Fill', and 'Clear' options.

Conditional Formatting	Highlight Cells Rules	Greater Than...
Format as Table	Top/Bottom Rules	Less Than...
Cell Styles	Data Bars	Between...
	Color Scales	Equal To...
	Icon Sets	Text that Contains...
	New Rule...	A Date Occurring...
	Clear Rules	Duplicate Values...
	Manage Rules...	